

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (Currently amended). An immunizing composition, comprising an immunizing effective amount of an antigenic product which induces an immune response against the β -secretase cleavage site of amyloid precursor protein (A β PP) and a pharmaceutically acceptable carrier, diluent, excipient, adjuvant, or auxiliary agent, wherein said antigenic product comprises a display vehicle and an antigenic peptide displayed on said display vehicle, said antigenic peptide comprising a 6-14 amino acid residue A β PP epitope that spans the β -secretase cleavage site of A β PP.

2 (Currently amended). The immunizing composition of claim 1, wherein said antigenic product display vehicle comprises a dendritic polymer, built on a core molecule, which is at least difunctional so as to provide branching, and containing up to 16 terminal functional groups to which an said antigenic peptide, that comprises an A β PP epitope spanning the β -secretase cleavage site of A β PP, is joined by covalent bonds.

3 (Original). The immunizing composition of claim 2, wherein said dendritic polymer contains eight terminal functional groups to which an antigenic peptide is joined.

4 (Currently amended). The immunizing composition of claim 2, wherein said ~~A β PP epitope spanning the β -secretase cleavage site of A β PP antigenic peptide~~ comprises residues 1 to 8 of SEQ ID NO:1.

5 (Currently amended). The immunizing composition of claim 2, wherein said ~~A β PP epitope spanning the β -secretase cleavage site of A β PP antigenic peptide~~ comprises the amino acid sequence of SEQ ID NO:5.

6 (Original). The immunizing composition of claim 2, wherein said antigenic peptide comprises two overlapping A β PP epitopes of said β -secretase cleavage site of A β PP.

7 (Original). The immunizing composition of claim 6, wherein said two overlapping A β PP epitopes are identical.

8 (Original). The immunizing composition of claim 2, wherein said core molecule is lysine.

9 (Original). The immunizing composition of claim 2, further comprising a molecule having adjuvant properties joined to said dendritic polymer.

10 (Original). The immunizing composition of claim 2, wherein said antigenic product is encapsulated in a liposome.

11 (Currently amended). The immunizing composition of claim 1, wherein said ~~antigenic product display vehicle~~ comprises a viral display vehicle displaying on its surface an ~~said antigenic peptide A β PP epitope spanning the β -secretase cleavage site of A β PP.~~

12 (Original). The immunizing composition of claim 11, wherein said viral display vehicle is a filamentous bacteriophage.

13 (Currently amended). The immunizing composition of claim 11, wherein said ~~A β PP epitope spanning the β -secretase cleavage site of A β PP antigenic peptide~~ comprises residues 1 to 8 of SEQ ID NO:1.

14 (Currently amended). The immunizing composition of claim 11, wherein said ~~A β PP epitope spanning the β -secretase cleavage site of A β PP antigenic peptide~~ comprises the amino acid sequence of SEQ ID NO:5.

15 (Previously presented). A method for inducing an immune response against the β -secretase cleavage site of A β PP comprising administering the immunizing composition of claim 1 to a human subject in need thereof to induce an immune response against the β -secretase cleavage site of A β PP and block β -secretase cleavage of A β PP, thereby inhibiting the formation of amyloid β .

Claims 16-26 (Cancelled).

27 (Currently amended). The immunizing composition of claim 24_2, wherein ~~one of said at least one said A β PP epitope spanning the β -secretase cleavage site of A β PP antigenic peptide~~ consists of residues 1 to 8 of SEQ ID NO:1.

Claim 28 (Cancelled).

29 (Currently amended). The immunizing composition of claim 24_2, wherein ~~one of said at least one said A β PP epitope spanning the β -secretase cleavage site of A β PP antigenic peptide~~ consists of the amino acid sequence of SEQ ID NO:5.

Claims 30-37 (Cancelled).

38 (Currently amended). The immunizing composition of claim 35_11, wherein ~~one of said at least one said A β PP epitope spanning the β -secretase cleavage site of A β PP~~ consists of residues 1 to 8 of SEQ ID NO:1.

Claim 39 (Cancelled).

40 (Currently amended). The immunizing composition of claim 35_11, wherein ~~one of said at least one said A β PP epitope spanning the β -secretase cleavage site of A β PP~~ consists of SEQ ID NO:5.

Claim 41 (Cancelled).

42 (New) . The immunizing composition of claim 4,
wherein the residue at position 6 of SEQ ID NO:1 is Met.

43 (New) . The immunizing composition of claim 4,
wherein the residue at position 6 of SEQ ID NO:1 is Leu.

44 (New) . An antigenic peptide consisting of 6-14
amino acid residues of the amyloid precursor protein (A β PP)
that span the β -secretase cleavage site of A β PP.

45 (New) . The antigenic peptide of claim 44, wherein
said antigenic peptide comprises residues 1 to 8 of SEQ ID
NO:1.

46 (New) . The antigenic peptide of claim 45, wherein
the residue at position 6 of SEQ ID NO:1 is Met.

47 (New) . The antigenic peptide of claim 45, wherein
the residue at position 6 of SEQ ID NO:1 is Leu.

48 (New) . The antigenic peptide of claim 44, wherein
said antigenic peptide consists of 1 to 8 of SEQ ID NO:1.

49 (New) . The antigenic peptide of claim 44, wherein
said antigenic peptide comprises the amino acid sequence of
SEQ ID NO:5.

50 (New) . The antigenic peptide of claim 44, wherein
said antigenic peptide consists of the amino acid sequence of
SEQ ID NO:5.